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Help

Logout

Main Menu

Search Form

Result Set

Show S Numbers

Edit S Numbers

First Hit

Previous Document

Next Document

Full

Title

Citation

Front

Review

Classification

Date

Reference

Claims

KWC

## Document Number 74

Entry 74 of 86

File: DWPI

Aug 25, 1975

DERWENT-ACC-NO: 1976-18322X

DERWENT-WEEK: 197610

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TITLE: Crosslinking agent for epoxy resins - prepd. by reacting maleic anhydride with alkenyl aromatic hydrocarbons

PATENT-ASSIGNEE: PETROCHEM PROCESSES [PETRR]

## PRIORITY-DATA:

1971SU-1685950

July 21, 1971

## PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

SU 448742 A

August 25, 1975

N/A

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N/A

INT-CL (IPC): C08G 45/04

ABSTRACTED-PUB-NO: SU 448742A

BASIC-ABSTRACT:

The proposed agent (I), which is based on copolymerising a 1:1-1.5 molar mixt. of alkenylaromatic cpd (II) (mol wt. 1000-200,000): maleic anhydride (III), has at least 3 anhydride groups per molecule and is added to compsn. in copolymer: resin ratio 5-95:95-5. (I) is styrene, vinyl-toluene, alpha-methylstyrene, allyl-toluene, allyl-napht halene, 1-phenylbuten-2, alkenylphenylvinylphenol, isopropenylphenol, allyl phenol or butenyl phenol. (I) is added to epoxy resin as soln. in lower ketone before heating 0.5-350 mins at 30-250 degrees C to give the props: adhesion to metal 200-250 kg. sec/cm<sup>2</sup>; non-deformed under 200 g. load below destruction temp; thermal destruction initiated at 290-300 degrees C in deep vacuum.

## TITLE-TERMS:

CROSSLINK AGENT EPOXY RESIN PREPARATION REACT MALEIC ANHYDRIDE ALKENYL AROMATIC

DERWENT-CLASS: A21 A60

CPI-CODES: A04-C01; A04-F05; A05-A01B; A08-D02;

Multipunch Codes: 012 03& 034 055 056 104 105 106 155 157 199 220 221 226 231 27& 311 336 341 359 400 473 575 583 589 679 720 012 03& 034 104 105 106 109 112 155 157 199 220 221 226 231 27& 311 336 341 359 400 473 575 583 589 679 720 012 03& 034 060 104 105 106 155 157 199 220 221 226 231 27& 311 336 341 359 400 473 575 583 589 679 720 012 03& 034 055 058 104 105 106 155 157 199 220 221 226 231 27& 311 336 341 359 400 473 575 583 589 679 720

Main Menu

Search Form

Result Set

Show S Numbers

Edit S Numbers

First Hit

Previous Document

Next Document

Full

Title

Citation

Front

Review

Classification

Date

Reference

Claims

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